

What is claimed is:

1. An air outlet device for a vehicle comprising:
  - a nozzle body with an air intake opening and an air outlet opening;
  - a holding element formed with an accommodating opening having the nozzle body supported therein for rotation about a longitudinal axis extending through the air intake opening and the air outlet opening; and
  - a valve body, arranged coaxially within the nozzle body and guided by the holding element, which valve body upon rotation of the nozzle body can be displaced in the nozzle body between a closing position for blocking the air outlet opening and a maximum opening position for clearing the air outlet opening for maximum air flow, wherein the valve body is provided, on its closing end facing towards the air outlet opening of the nozzle body, with a cover member.
2. The air outlet device according to claim 1, wherein the valve body comprises a coupling member being in guiding engagement with the holding element and arranged to be taken along by the nozzle body upon rotation of the same.
3. The air outlet device according to claim 2, wherein the coupling member is formed in one piece with the valve body.
4. The air outlet device according to claim 3, wherein the valve body and the coupling member are formed as an integral injection-molded member.
5. The air outlet device according to claim 2, wherein the coupling member is provided with webs projecting from the valve body and particularly having a streamlined shape, and with a ring connecting the webs to each other, and wherein the webs of the coupling member extend through receiving slots of the nozzle body which are open toward the air intake opening of the nozzle body, the ring of the coupling member being arranged externally of the nozzle body.

6. The air outlet device according to claim 2, wherein the coupling member comprises an outer thread and the holding element comprises an inner thread, the inner thread of the holding element comprising partial segments spaced from each other in the circumferential direction.
7. The air outlet device according to claim 1, wherein the end of the valve body facing towards the air intake opening of the nozzle body is of a rounded shape.
8. The air outlet device according to claim 7, wherein the valve body, in the region of the apex of its rounded end, is formed with a substantially spherical deepened portion.
9. The air outlet device according to claim 4, wherein the valve body has a sprue cone arranged within the spherical deepened portion of its rounded end.
10. The air outlet device according to claim 1, wherein the holding element is of a hollow spherical shape and comprises a central through passage provided with the accommodating opening for the nozzle body.
11. The air outlet device according to claim 1, wherein the nozzle body comprises an operating member to be manually turned for adjustment and extending to a position external of the holding element, and a sleeve member being arranged within the holding element and connected to the operating member for common rotation therewith.
12. The air outlet device according to claim 11, wherein the operating member in the region of an operation portion arranged externally of the holding element, and the sleeve member each have a larger radial dimension than the accommodating opening of the holding element.
13. The air outlet device according to claim 11, wherein the operating member

comprises a collar portion joining the operation portion while extending through the accommodating opening of the holding element into the holding element and forming at least a part of the inner side of the nozzle body, and wherein the sleeve member is configured to be mounted on the collar portion.

14. The air outlet device according to claim 13, wherein the sleeve member extends beyond the collar portion of the operating member into the holding element and in this region forms the inner side of the nozzle body.

15. The air outlet device according to claim 11, wherein the inner side of the nozzle body is substantially cylindrical.

16. The air outlet device according to claim 1, wherein the nozzle body comprises a receiving groove with the holding element immersed therein by its edge delimiting the accommodating opening for the nozzle body.

17. The air outlet device according to claim 16, wherein the receiving groove is delimited by confronting surfaces of the operating member and the sleeve member.

18. The air outlet device according to claim 1, wherein the vehicle is an airplane.